Elisa and Belen

After a while we figure out that if you increase the width, then you have to decrease the length in order to have the same perimeter but bigger area.
Travis and Latoya

1) 

It would be better to sink the footer because you can place your walls and footings closer by each side. By doing this you increase your footing. There is also more land for you and your corner to be dug.
Rodolfo, Clemente, and Julio

We started with a rectangle. That will give us 100 meters. We started with 35. We multiply 15\( \div \frac{15}{35} \) to find the area of the plot. Then we did another rectangle: 34\( \div \frac{34}{35} \). So we multiply again to find the area: 34\( \times \frac{34}{35} \). It made the area allot bigger. Every time we reduce the area, it got bigger until we got to 25. So it was a square. That will give them the biggest area: 25\( \times 25 = 625 \). We multiply 25\( \div \frac{25}{25} \).

They win allot more land if they work together. Of 25 prospectors: 25\( \times \frac{25}{25} \), they have a total of 100 land. If they work 100 together, they have allot more land: 10,000 \( \div \frac{10,000}{10,000} \).
Crystal and Steven

I think you should use 25" as the dimension because the area is bigger.

I think 2 people joining the same plot is a good idea because you each get 1,250 worth of land.
First step:

1. \[ \frac{25}{25} \text{ width} = 6.25 \]
2. \[ \frac{20}{20} \text{ length} = 600 \]
3. \[ \frac{25}{25} \text{ length} = \frac{625}{625} \]
4. \[ \frac{20}{20} \text{ width} = \frac{600}{600} \]

Second step:

Adding two prospects together the answer would be 2,600.

Divide by two

1. \[ 1250 \]
2. \[ 1250 \]

So if we work together we can get more land.
Jessica